

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA / \_\_\_\_\_

**PCT  
DEMAND**

**CHAPTER II**

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

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|   |   |  |
|---|---|--|
| Identification of IPEA  |   | Date of receipt of DEMAND  |
| <b>Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION</b>  |   | Applicant's or agent's file reference<br><b>MCR/44846PCT2</b>  |
| International application No.<br><b>PCT/GB2004/005007</b>   | International filing date<br><b>26 November 2004</b>      | (Earliest) Priority date<br><b>26 November 2003</b>  |
| Title of invention<br><b>Packaging Device and container for sheet objects</b>   |   |  |
| <b>Box No. II APPLICANT(S)</b>  |   |  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)<br><br><b>Money Controls Limited<br/>Coin House, New Coin Street<br/>Royton, Oldham OL2 6JZ<br/>GB</b> |   | Telephone No.:<br><br>Facsimile No.:<br><br>Teleprinter No.:<br><br>Applicant's registration No. with Office |
| State (that is, country) of nationality:<br><b>GB</b>   |   | State (that is, country) of residence:<br><b>GB</b>  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)<br><br><b>BELL, Malcolm<br/>9 Foxhill Green<br/>Weetwood<br/>Leeds LS16 5PQ<br/>GB</b>                 |   |  |
| State (that is, country) of nationality:<br><b>GB</b>   |   | State (that is, country) of residence:<br><b>GB</b>  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)<br><br><b>HUTTON, Les<br/>5 Weir Road<br/>Milnrow, Rochdale<br/>Lancashire OL16 3UX, GB</b>            |   |  |
| State (that is, country) of nationality:<br><b>GB</b>   |   | State (that is, country) of residence:<br><b>GB</b>  |
| <input type="checkbox"/>  | Further applicants are indicated on a continuation sheet. |  |

International application No.  
PCT/GB2004/005007

**Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The following person is  agent  common representative  
and  has been appointed earlier and represents the applicant(s) also for international preliminary examination.  
 is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.  
 is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name; for a legal entity, full official designation.  
The address must include postal code and name of country.)*

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**Address for correspondence:** Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION**

**Statement concerning amendments:\***

1. The applicant wishes the international preliminary examination to start on the basis of:

the international application as originally filed.  
the description  as originally filed  
 as amended under Article 34

the claims  as originally filed  
 as amended under Article 19 (together with any accompanying statement)  
 as amended under Article 34

the drawings  as originally filed  
 as amended under Article 34

2.  The applicant wishes any amendments to the claims under Article 19 to be considered as reversed.

3.  The applicant wishes the start of international preliminary examination to be postponed until the expiration of the applicable time limit under Rule 69.1(d).

4.  The applicant expressly wishes the international preliminary examination to be started earlier than the expiration of the applicable time limit under Rule 54bis.1(a).

\* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

**Language for the purposes of international preliminary examination: ENGLISH**

which is the language in which the international application was filed.  
 which is the language of a translation furnished for the purposes of international search.  
 which is the language of publication of the international application.  
 which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

**Box No. V ELECTION OF STATES**

The filing of this demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the PCT.

International application No.  
PCT/GB2004/005007

## Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

|  |   |           | For International Preliminary Examining Authority use only |                          |
|--|---|-----------|--|--------------------------|
|  |   |           | received   | not received             |
| 1. translation of international application                              | : | sheets    | <input type="checkbox"/>                                   | <input type="checkbox"/> |
| 2. amendments under Article 34   | : | 10 sheets | <input type="checkbox"/>                                   | <input type="checkbox"/> |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets    | <input type="checkbox"/>                                   | <input type="checkbox"/> |
| 4. copy (or, where required, translation) of statement under Article 19  | : | sheets    | <input type="checkbox"/>                                   | <input type="checkbox"/> |
| 5. letter  | : | 3 sheets  | <input type="checkbox"/>                                   | <input type="checkbox"/> |
| 6. other (specify)   | : | sheets    | <input type="checkbox"/>                                   | <input type="checkbox"/> |

The demand is also accompanied by the item(s) marked below:

|  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> fee calculation sheet                             | 5. <input type="checkbox"/> statement explaining lack of signature                         |
| 2. <input type="checkbox"/> original separate power of attorney                          | 6. <input type="checkbox"/> sequence listing in computer readable form                     |
| 3. <input type="checkbox"/> original general power of attorney                           | 7. <input type="checkbox"/> tables in computer readable form related to a sequence listing |
| 4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 8. <input type="checkbox"/> other (specify):   |

## Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not clear from reading the demand).



Matthew Read

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## 1. Date of actual receipt of DEMAND:

## 2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

|   |  |
|---|--|
| 3. <input type="checkbox"/> The date of receipt of the demand is AFTER the expiration of 19 months from the priority date, and item 4 or 5, below, does not apply.<br><input type="checkbox"/> The applicant has been informed accordingly. | 6. <input type="checkbox"/> The date of receipt of the demand is AFTER the expiration of the time limit under Rule 54bis.1(a) and item 7 or 8, below, does not apply.                        |
| 4. <input type="checkbox"/> The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5   | 7. <input type="checkbox"/> The date of receipt of the demand is WITHIN the time limit under Rule 54bis.1(a) as extended by virtue of Rule 80.5.   |
| 5. <input type="checkbox"/> Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.  | 8. <input type="checkbox"/> Although the date of receipt of the demand is after the expiration of the time limit under Rule 54bis.1(a), the delay in arrival is EXCUSED pursuant to Rule 82. |

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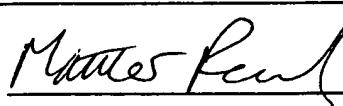
Demand received from IPEA on:

## PCT

## FEE CALCULATION SHEET

## Annex to the Demand

For International Preliminary Examining Authority use only

|   |   |   |
|---|---|---|
| International Application No. <b>PCT/GB2004/005007</b>  |   |   |
| Applicant's or agent's file reference <b>MCR/44846PCT2</b>  | Date stamp of the IPEA                    |   |
| Applicant<br><b>Money Controls Limited</b>  |   |   |
| <b>CALCULATION OF PRESCRIBED FEES</b>   |   |   |
| 1. Preliminary examination fee .....  | <b>Eur 1530.00</b>                        | P |
| 2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)..... | <b>Eur 129.00</b>                         | H |
| 3. Total of prescribed fees<br>Add the amounts entered at P and H and enter the total in the TOTAL box .....  | <b>Eur 1659.00</b>                        |   |
| <b>TOTAL</b>  |   |   |
| <b>Mode of Payment</b>  |   |   |
| <input checked="" type="checkbox"/> Authorisation to charge deposit account with the IPEA (see below)   | <input type="checkbox"/> cash             |   |
| <input type="checkbox"/> cheque   | <input type="checkbox"/> revenue stamps   |   |
| <input type="checkbox"/> postal money order   | <input type="checkbox"/> coupons          |   |
| <input type="checkbox"/> bank draft   | <input type="checkbox"/> other (specify): |   |
| <b>AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT</b><br><i>(The mode of payment may not be available at all IPEAs)</i>  |   |   |
| IPEA/ _____   |   |   |
| <input checked="" type="checkbox"/> Authorization to charge the total fees indicated above  | Deposit Account No.: <b>28050158</b>      |   |
| <input type="checkbox"/> (This check box may be marked only if the conditions for deposit accounts of the IPEA so permit) Authorisation to charge any deficiency or credit any overpayment in the total fees indicated above.       | Date: <b>26 September 2005</b>            |   |
| Name: <b>Matthew Read</b>   |   |   |
| Signature:   |   |   |

## Claims

1. Packaging for a stack of monetary objects (29), comprising a container (4) to receive the monetary objects, which once opened cannot be re-used as such packaging, and an RFID device (21) to be packaged within the container so as to be removable from the container when opened for re-use in another said container.
2. Packaging according to claim 1 including a closure member (9) for sealing the RFID device inside the container.
3. Packaging according to claim 1 or 2 wherein the RFID device (21) is a read/write RFID tag.
- 15 4. Packaging according to claim 2 or 3 wherein the RFID device (21) is a read-only RFID tag.
5. Packaging according to any one of the preceding claims, containing a stack (29) of sheet monetary objects (2) therein.
- 20 6. Packaging according to claim 5 wherein the RFID device comprises a member that forms a base for the stack (29) of sheet monetary objects.
7. Packaging according to claim 2 wherein the RFID device is releasably attached to the underside of the closure member (9).
- 25 8. Packaging according to any preceding claim wherein the container (4) is made of recyclable plastics material.
- 30 9. A method of processing monetary objects (2) comprising: packaging the monetary objects by stacking them in a container (4), which once opened cannot be re-used for such packaging, and providing an RFID device within the container

so as to be removable from the container when opened for re-use in another said container (4).

10. A method according to claim 9 including opening the container (4),  
5 removing the monetary objects (2) from the opened container, removing the  
RFID device from the container (4) and re-using the RFID device when packaging  
monetary items in another said container (4).

11. A method according to claim 10 including sending the opened container (4)  
10 to be recycled (S140) after removal of the monetary objects and the RFID device  
therefrom.

12. A method according to claim 10 or 11 including deleting data from the  
RFID device removed from the container (S130).

15  
13. A method according to claim 9 including recording in the RFID device data  
corresponding to the monetary objects stacked in the container.

14. A method according to claim 9 including sealing a closure member (9) onto  
20 the container with the stack (29) of monetary items therein.

15. A method according to claim 14 including providing the RFID device (21)  
on the closure member (9) within the container.

25 16. A method according to claim 9 including providing the RFID device as  
member that forms a base for the stack (29) of monetary objects (2).

17. A packaging system for packaging a stack of sheet objects that have an  
attributable monetary value in a container, comprising  
30 (i) a packaging device, comprising:

means for determining first value data relating to a sheet object to be  
stacked in the container; and

an RF reader/writer for writing said first value data to an RFID device,

(ii) at least one container (4) configured to be filled with a stack of sheet objects by the packaging device and closed such that once opened the container cannot be re-used, and

5 (iii) an RFID device (21) to be included with the container and removed therefrom once the container has been opened for use when packaging sheet objects in another said container.

18. A system according to claim 17, comprising first processing means having a  
10 first a database for storing said first value data therein.

19. A system according to claim 18, comprising display means for displaying data stored in said first database to a user.

15 20. A system according to any one of claim 17 to 19, comprising:  
an unpacking device for removing sheet objects from the container and determining second value data relating to sheet objects removed from the container.

20 21. A system according to claim 20, wherein the unpacking device comprises RF means for reading the first value data stored on the RFID device.

22. A system according to claim 21, comprising second processing means having a second database for storing the first value data read from the RFID device and the second value data determined by the unpacking device.

25 23. A system according to claim 22, comprising an alarm, wherein the second processing means is operable to compare said first value data to said second value data and to trigger the alarm in the event that the first value data is not reconciled with the second value data.

30

24. A system according to claim 22, wherein the second processing means is operable to compare said first value data to said second value data and to control said RF means to delete the first value data from the RFID device in the event that the first value data is reconciled with the second value data.

5

25. A system according to claim 22, 23 or 24, comprising display means for displaying the information stored in the other database to a user.

26. A system according to any one of claims 17 to 25, comprising:  
10 an RF detector for detecting the RFID device, wherein the RF detector is operable to write tracking information to the RFID device.

27. A system according to claim 26, wherein the RF detector is operable to transmit said tracking information to the first processing means, and the first 15 processing means is operable to store said tracking information in the first database in association with the first value data.

28. A system according to claim 26, wherein the RF detector is operable to transmit said tracking information to the second processing means, and the second 20 processing means is operable to store said tracking information in the second database in association with the first value data.

29. A system according to claim 26, 27 or 28, wherein the tracking information 25 comprises the time and or the date when the RFID device is detected by the RF detector.

30. A system according to any one of claim 17 to 29, comprising an alarm and an RF detector for detecting the RFID device, wherein the RF detector is operable to trigger the alarm in response to detecting the RFID device.

30

31. A system according to any one of claim 17 to 30, wherein the packaging device comprises a sealing device for sealing the container and the RFID device is disposed so as to be sealed inside the container.
- 5 32. A system according to claim 31, comprising a closure member to be sealed by the sealing device onto the container.
33. A system according to claim 32, wherein the RFID device is releasably attached to the closure member.

10

34. A system according to any one of claims 17 to 33, wherein the first and/or the second value data relate to the monetary value attributed to said sheet objects and/or the number of sheet objects in said stack.

15 35. A method of transporting sheet objects (2) that have an attributable monetary value, the method comprising:  
determining first value data relating to a stack (29) of sheet objects (2) packaged in a container (4) that is closed such that once opened the container cannot be re-used;

20 writing said first value data to an RFID device (21) associated with the container; and  
sealing the RFID device (21) inside the container such that the device (21) can be re-used once the container is opened to remove the stack (29).

25 36. A method according to claim 22 or 23, comprising storing said first value data in a first database.

37. A method according to claim 35 or 36, comprising:  
unpacking the stack of sheet objects from the container;  
30 determining second value data relating to the stack of sheet objects;  
reading the first value data from the RFID device;  
removing the RFID device from the container for re-use; and

storing said first value data and said second value data in a second database.

38. A method according to claim 37, comprising comparing the first value data with the second value data and triggering an alarm in the event that the first value  
5 data is not reconciled with the second value data.

39. A method according to claim 37, comprising comparing the first value data with the second value data and deleting the first value data from the RFID device in the event that the first value data is reconciled with the second value data.

10

40. A method according to any one of claims 35 to 39, comprising:  
sensing the RFID device within a predetermined locality; and  
writing tracking information to the RFID device.

15 41. A method according to claim 40, comprising storing said tracking information in the first database and/or the second database.

42. A method according to claim 40 or 41, wherein the tracking information comprises the time and/or the date at which the RFID device is sensed.

20

43. A method according to any one of claims 35 to 42, comprising:  
sensing the RFID device within a predetermined locality; and  
triggering an alarm.

25 44. A method according to any one of claims 35 to 43, wherein the first and/or the second value data relate to the monetary value attributed to said stack of sheet objects and/or the number of sheet objects in said stack.

45. A packaging system for packaging a stack of sheet objects that have an  
30 attributable monetary value in a container, comprising  
(i) a packaging device, comprising:

means for determining first value data relating to a sheet object to be stacked in the container; and

an RF reader for reading identification information from an RFID device associated with a container,

5 (ii) at least one container configured to be filled with a stack of sheet objects by the packaging device and closed such that once opened the container cannot be re-used,

(iii) an RFID device (21) to be included within the closed container and removed therefrom once the closed container has been opened for use when packaging

10 sheet objects in another said container, and

(iv) first processing means having a first database for storing identification information read from the RFID device in association with said first value data.

46. A system according to claim 45, comprising display means for displaying

15 data stored in said first database to a user.

47. A system according to claim 45 or 46, comprising:

an unpacking device for removing sheet objects from the container and determining second value data relating to sheet objects removed from the

20 container.

48. A system according to claim 47, wherein the unpacking device comprises RF means for reading the identification information stored on the RFID device.

25 49. A system according to claim 48, comprising second processing means having a second database for storing the identification information read from the RFID device in association with the second value data determined by the unpacking device.

30 50. A system according to claim 49, comprising display means for displaying information stored in the second database to a user.

51. A system according to claim 49 or 50, wherein said second processing means is operable to send, across a network, a request signal to said first processing means, said request signal relating to the identification information read from the RFID device.

5

52. A system according to claim 51, wherein the first processing means is operable to transmit data stored in the first database in association with the identification information, across a network, to the second processing means in response to receiving said request signal.

10

53. A system according to claim 52, wherein the second processing means is operable to store data received from the first processing means in the second database in association with the identification information read from the RFID device.

15

54. A system according to any one of claim 42 to 44, wherein the request signal and/or the data stored in the first database are transmitted over the internet.

55. A system according to any one of claim 45 to 54, comprising:

20 an RF detector for detecting the RFID device, wherein the RF detector is operable to read the identification information stored on the RFID device and to transmit tracking information to the first processing means, the first processing means being operable to store said tracking information in association with the identification information read by the RF detector in said first database.

25

56. A system according to claim 55, wherein the tracking information comprises the time and or the date when the RFID device is detected by the RF detector.

30 57. A system according to any one of claim 45 to 56, comprising an alarm and an RF detector for detecting the RFID device, wherein the RF detector is operable to trigger the alarm in response to detecting the RFID device.

58. A system according to any one of claim 45 to 57, wherein the packaging device comprises a sealing device for sealing the container, and the RFID device is disposed so as to be sealed inside the container.

5

59. A system according to claim 58, comprising a closure member to be sealed by the sealing device onto the container.

60. A system according to claim 59, wherein the RFID device is releasably attached to the closure member.

10 61. A system according to any one of claims 45 to 60, wherein the first and/or the second value data relate to the monetary value attributed to said sheet objects and/or the number of sheet objects in said stack

15

62. A method of transporting sheet objects that have an attributable monetary value, the method comprising:

determining first value data relating to a stack of sheet objects packaged in a container that is closed such that once opened the container cannot be re-used;

20 reading identification information from an RFID device associated with the container;

storing said identification information in a first database in association with said first value data and

25 sealing the RFID device (21) inside the container such that the device (21) can be removed and re-used once the container is opened to remove the stack (29).

63. A method according to claim 62, comprising:

sensing the RFID device within a predetermined locality;

30 reading the identification information stored on the RFID device; and

storing tracking information on the first database in association with the identification information.

64. A method according to claim 63, wherein the tracking information comprises the time and/or the date at which the RFID device is sensed.
- 5 66. A method according to claim 63 or 64, comprising:
  - sensing the RFID device within a predetermined locality; and
  - triggering an alarm.
- 10 67. A method according to any one of claim 63 to 66, comprising:
  - 10 unpacking the stack of sheet objects from the container;
  - determining second value data relating to the stack of sheet objects;
  - reading the identification information from the RFID device;
  - retrieving first value data associated with the identification information read from the RFID device from the first database;
  - 15 storing said first value data and said second value data in a second database in association with the identification information read from the RFID device.
- 20 68. A method according to claim 67, comprising:
  - comparing said first value data with said second value data; and
  - triggering an alarm in the event that the first value data is not reconciled with the second value data.
- 25 69. A method according to claim 68, comprising:
  - comparing said first value data with said second value data; and
  - 25 deleting, from the first and/or the second database, data associated with the identification information read from the RFID device, in the event that the first value data is reconciled with the second value data.
- 30 70. A method according to any one of claims 62 to 69, wherein the first and/or the second value data relate to the monetary value attributed to said stack of sheet objects and/or the number of sheet objects in said stack.